

**IN THE CLAIMS:**

*Please find below a listing of all of the pending claims. The statuses of the claims are set forth in parentheses.*

1. (Currently Amended) A method for resource allocation management for an interactive session on a grid computing system, comprising:

receiving an end user request for an interactive session with the end user;

identifying any application programs needed by the end user to be launched in said interactive session;

determining a user class to which the end user belongs;

determining resource requirements for said interactive session including processor, network bandwidth, executables and files requirements;

consulting one or more user class authorization policy files to determine resource allocation policies for the end user's user class;

generating a contract for the interactive session specifying resource allocations and authorizations, wherein the contract includes a service level agreement with the end user and the resource allocations and authorizations in the contract are determined based on the end user's class and the resource allocation policies for the end user's class; and

allocating resources for the interactive session in accordance with the service level agreement.

2. (Previously Presented) The method of claim 1, wherein:

the step of identifying application programs to be launched in the interactive session includes consulting a user directory to identify application programs which the end user is authorized to use.

3. (Previously Presented) The method of claim 1, wherein:

the step of determining resource requirements includes consulting one or more application profile files which provide information concerning the resource requirements for individual applications.

4. (Canceled).

5. (Previously Presented) The method of claim 1, wherein:

the step of generating said contract includes generating an authorization policy.

6. (Previously Presented) The method of claim 1, further comprising:

monitoring the interactive session to ensure compliance with terms of the contract.

7. (Previously Presented) The method of claim 1, wherein:

the step of allocating resources for the interactive session is performed by a grid scheduler which receives the end user request and the contract.

8. (Currently Amended) A system for managing resource allocation for an interactive session on a grid computing system, the system comprising:

one or more processors;  
one or more memories coupled to the one or more processors; and  
program instructions stored in the one or more memories, the one or more processors  
for executing the program instructions including:  
receiving an end user request for the interactive session with the end user;  
identifying applications for the end user to be launched in the interactive session;  
determining a user class to which the end user belongs;  
determining resource requirements for the interactive session including processor,  
network bandwidth, executables and files requirements;  
consulting one or more user class authorization policy files to determine resource  
allocation policies for the end user's user class;  
generating a contract for the interactive session specifying resource allocations and  
authorizations, wherein the contract includes a service level agreement with the end user and  
the resource allocations and authorizations in the contract are determined based on the end  
user's class and the resource allocation policies for the end user's class; and  
allocating resources for the interactive session in accordance with the service level  
agreement.

9. (Previously Presented) The system of claim 8, further comprising:

a user directory which includes for the end user a list of applications which the end  
user is authorized to use.

10. (Original) The system of claim 8, further comprising:

an application profiles repository for providing information concerning resource requirements for individual applications.

11. (Original) The system of claim 8, further comprising:

a user class authorization policy repository for providing resource allocation policies for different user classes.

12. (Previously Presented) The system of claim 8, further comprising:

a grid scheduler which receives the end user request and the contract and performs the step of allocating resources for the interactive session.

13-14. (Canceled).

15. (Currently Amended) A system for managing resource allocation for an interactive session on a grid computing system, comprising:

a distributed resource management node, the distributed resource management node including a distributed resource management interface and a grid scheduler, the grid scheduler configured to receive an end user request and output an admission control decision;

a contract generation engine coupled to the distributed resource management node, the contract generation engine configured to determine resource requirements for an interactive session with the end user, to determine a user class to which the end user belongs, to consult one or more user class authorization policy files to determine resource allocation policies for the end user's user class, and to generate a contract specifying resource allocations and authorizations, wherein the contract includes a service level agreement with

the end user and the resource allocations and authorizations in the contract are determined based on the end user's class and the resource allocation policies for the end user's class; and  
a contract repository configured to store the service level agreement.

16. (Previously Presented) The system of claim 15, further comprising:  
a user directory which includes for the end user a list of applications which the end user is authorized to use.
17. (Previously Presented) The system of claim 15, further comprising:  
an application profiles repository, for providing the resource requirements information for individual applications.
18. (Original) The system of claim 15, further comprising:  
a user class authorization policy repository for providing resource allocation policies for different user classes.
- 19-20. (Canceled).